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#### 1. a: Radiochemistry and Radiotracers for Imaging

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Grant applications are sought in three new areas of radiochemistry: (1) development of new chemical reactions to overcome the synthetic constraints of working with radioisotopes at high specific activity, in order to provide more generally applicable radiolabeling techniques; (2) construction of nanoparticle platforms, forincorporation of one or more imaging agents and targeting moieties; and (3) ...

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#### **2.** <u>b: Other</u>

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above. Questions – contact Prem Srivastava, prem.srivastava@science.doe.gov

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#### 3. 07: Enhanced Availability of Climate Model Output

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date:



09-17-2011

Much of the nearly \$2 billion annual research budget for the U.S. Global Change Research Program supports research from the Department of Energy, National Aeronautics and Space Administration (NASA), National Oceanic and Atmospheric Administration (NOAA), and National Science Foundation (NSF) Studies supported by this research budget, include modeling and simulation of long-term climate change. Mo ...

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#### 4. a: Accessibility of Climate Model Data to Non-Researchers

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

The purpose of this subtopic is to broaden the usage of federally-funded, long-term climate change simulations of high-end climate models, such as the Community Climate System Model, the NOAA Geophysical Fluid Dynamics Laboratory model, and the NASA Goddard Institute for Space Studies model. Therefore, grant applications are sought to develop technology for making the output of these models more a ...

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# **5.** <u>b: Develop Modeling Capabilities and Tools that will Facilitate a Better Linkage Between Global and Regional Climate Model Output and Wind-Energy Stakeholders</u>

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

There are a wide range of uncertainties in general circulation and regional climate models that make them unsuitable for direct use in the design and planning of wind-energy systems. In addition, the global climate model output resolution is much too coarse for use by wind energy planners. Modeling tools that are capable of converting the output of global models to local scales and enable better u ...

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#### 6. c: Other

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above.Questions – contact Renu Joseph, Renu.Joseph@science.doe.gov

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## 7. 08: Technologies for Subsurface Characterization and Monitoring

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date:



09-17-2011

New measurement and monitoring tools for interrogating physical, chemical, and biological processes in subsurface environments are important elements of Department of Energy (DOE) research efforts to support the assessment of remediation performance and DOE site stewardship. The purpose of these research efforts is to determine the fate and transport of contaminants generated from past weapons pro ...

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## **8.** <u>a: Mapping and Monitoring Hydrogeologic Processes in the Shallow</u> Subsurface

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

While subsurface characterization methods are improving and yielding higher-resolution data, they are still not routinely used to describe flow and transport processes or to guide remediation activities. Grant applications are sought to develop high-resolution geophysical, geochemical, or hydrogeological methods to: (1) characterize subsurface properties that control the transport and dispersion o ...

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## **9.** <u>b: Real-Time, In Situ Measurements of Geochemical, Biogeochemical and Microbial Processes in the Subsurface</u>

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Sensitive, accurate, and real-time monitoring of geochemical, biogeochemical, and microbial conditions are needed in subsurface environments, includinggroundwater, sediments, and biofilms. In particular, highly selective, sensitive, and rugged in situ devices are needed for low-cost field deployment in remote locations, in order to enhance our ability to monitor processes at finer levels of resolu ...

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#### **10.** c: Other

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above.Questions – contact David Lesmes, david.lesmes@science.doe.gov

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